

Stream Quality Assessment Form

Lake County Soil and Water Conservation District

River Mile 0.1 Stream Paine Creek Sample # 1
 Location Paine Creek - Indian Point Lake Metropark
 County LAKE Township/City Leroy Twp. Date 10/4/07 Time 10:00AM
 Monitoring Group _____
 Or Individual LaMuth Middle School No. of Participants 6

Riffle Structure

Width of Riffle _____
 Water Depth _____
 Water Temp ____°C or 62°F

Chemical Analysis

Dissolved O₂ 9.0 mg/L
 Acidity (pH) _____
 Salinity (Cl) _____
 Ammonia _____

Coliform sample taken?

Yes ☐ No ☐ # _____

Results _____

Bed Composition of Riffle (must add up to 100%)

SILT ☐ SAND ☐ GRAVEL ☐ COBBLES ☐ BOULDERS ☐
 (1/4"-2") (2"-10") (>10")

Descriptions of Water Conditions:

Clear, with no odor

Special Notes:

MACROINVERTEBRATE TALLY

Estimated Count

A= 1 to 9

B= 10 to 99

C= 100 or more

GROUP 1 TAXA	LTR. Code	GROUP 2 TAXA	LTR. Code	GROUP 3 TAXA	LTR. Code
Water Penny Larvae	—	Damselfly Nymphs	—	Blackfly Larvae	A
Mayfly Nymphs	B	Dragonfly Nymphs	—	Aquatic Worms	A
Stonefly Nymphs	A	Cranefly Larvae	A	Midge Larvae	A
Dobsonfly Larvae	B	Beetle Larvae	—	Pouch Snails	—
Caddisfly Larvae	B	Crayfish	—	Leeches	—
Riffle Beetle Adult	A	Scuds	—		
Gill Snails - (open right)	—	Clams	—		
		Sow Bugs	—		
NUMBER OF TAXA	5	NUMBER OF TAXA	1	NUMBER OF TAXA	3
(TIMES) INDEX VALUE	15	(TIMES) INDEX VALUE	2	(TIMES) INDEX VALUE	3
	3			VALUE 1	3

Cumulative
Index
Value

20

Stream Quality Assessment

Excellent (> 22)

Fair (11-16)

Good (17-22)

Poor (<11)

Please Send this form to:

Lake County Soil and Water
 Conservation District
 125 East Erie St.
 Painesville OH 44077

Stream Quality Assessment Form

Lake County Soil and Water Conservation District

River Mile 0.1 Stream Paine Creek Sample # 1
 Location Indian Point Lake Metropark
 County LAKE Township/City Leroy Twp. Date 10/4/07 Time 9:00 AM
 Monitoring Group
 Or Individual Lamoth Middle School No. of Participants 7

Riffle Structure

Width of Riffle _____
 Water Depth _____
 Water Temp ____°C or 62°F

Chemical Analysis

Dissolved O₂ 9.0 mg/L
 Acidity (pH) _____
 Salinity (Cl) _____
 Ammonia _____

Coliform sample taken?

Yes ☐ No ☐ # _____

Results _____

Bed Composition of Riffle (must add up to 100%)

SILT ☐ SAND ☐ GRAVEL ☐ COBBLES ☐ BOULDERS ☐
 (1/4"-2") (2"-10") (>10")

Descriptions of Water Conditions:

Clear, with odors

Special Notes:

MACROINVERTEBRATE TALLY

Estimated Count

A= 1 to 9

B= 10 to 99

C= 100 or more

GROUP 1 TAXA	LTR. Code	GROUP 2 TAXA	LTR. Code	GROUP 3 TAXA	LTR. Code
Water Penny Larvae	<u>A</u>	Damselfly Nymphs	<u>—</u>	Blackfly Larvae	<u>A</u>
Mayfly Nymphs	<u>A</u>	Dragonfly Nymphs	<u>—</u>	Aquatic Worms	<u>A</u>
Stonefly Nymphs	<u>A</u>	Cranefly Larvae	<u>A</u>	Midge Larvae	<u>—</u>
Dobsonfly Larvae	<u>A</u>	Beetle Larvae	<u>—</u>	Pouch Snails	<u>A</u>
Caddisfly Larvae	<u>B</u>	Crayfish	<u>—</u>	Leeches	
Riffle Beetle Adult	<u>—</u>	Scuds	<u>—</u>		
Gill Snails — (open right)	<u>—</u>	Clams	<u>—</u>		
		Sow Bugs	<u>—</u>		
NUMBER OF TAXA	<u>5</u>	NUMBER OF TAXA	<u>1</u>	NUMBER OF TAXA	<u>3</u>
(TIMES) INDEX VALUE	<u>15</u>	(TIMES) INDEX VALUE	<u>2</u>	(TIMES) INDEX VALUE	<u>3</u>
3		2		1	

Cumulative
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Value

20

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 Painesville OH 44077

Stream Quality Assessment Form

Lake County Soil and Water Conservation District

River Mile 0.1 Stream Paine Creek Sample #
 Location Indian Point Park
 County Lake Township/City Painesville Date 10/4/2007 Time 9:00
 Monitoring Group
 Or Individual Mrs. Wymer 7th Grade No. of Participants 6

Riffle Structure

Width of Riffle
 Water Depth
 Water Temp °C or °F

Chemical Analysis

Dissolved O₂
 Acidity (pH)
 Salinity (Cl)
 Ammonia 0.1 ppt

Coliform sample taken?

Yes ☐ No ☐ #

Results

Bed Composition of Riffle (must add up to 100%)

SILT ☐ SAND ☐ GRAVEL ☐ COBBLES ☐ BOULDERS ☐
 (1/4"-2") (2"-10") (>10")

Descriptions of Water Conditions:

Clear, colorless
odorless

Special Notes:

MACROINVERTEBRATE TALLY

Estimated Count

A= 1 to 9
 B= 10 to 99
 C= 100 or more

GROUP 1 TAXA	LTR. Code	GROUP 2 TAXA	LTR. Code	GROUP 3 TAXA	LTR. Code
Water Penny Larvae	<u>A</u>	Damselfly Nymphs		Blackfly Larvae	
Mayfly Nymphs	<u>A</u>	Dragonfly Nymphs		Aquatic Worms	<u>A</u>
Stonefly Nymphs	<u>A</u>	Crane fly Larvae		Midge Larvae	
Dobsonfly Larvae	<u>A</u>	Beetle Larvae		Pouch Snails	
Caddisfly Larvae	<u>A</u>	Crayfish		Leeches	
Riffle Beetle Adult	<u>A</u>	Scuds			
Gill Snails - (open right)		Clams			
		Sow Bugs			
NUMBER OF TAXA	<u>6</u>	NUMBER OF TAXA		NUMBER OF TAXA	<u>1</u>
(TIMES) INDEX VALUE	<u>18</u>	(TIMES) INDEX VALUE	<u>0</u>	(TIMES) INDEX VALUE	<u>1</u>
3		2		1	

Cumulative
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 Value

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Stream Quality Assessment

Excellent (> 22)
 Fair (11-16)

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 Poor (<11)

Please Send this form to:

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 Conservation District
 125 East Erie St.
 Painesville OH 44077

Stream Quality Assessment Form

Lake County Soil and Water Conservation District

River Mile 0.1 Stream Paine Creek Sample #
 Location Indian Point Park
 County Lake Township/City Painesville Date 10/4/07 Time 10:00
 Monitoring Group
 Or Individual Mrs. Dieterly 6th Graders No. of Participants 5

Riffle Structure

Width of Riffle
 Water Depth
 Water Temp °C or °F

Chemical Analysis

Dissolved O₂
 Acidity (pH)
 Salinity (Cl)
 Ammonia 0.1

Coliform sample taken?

Yes ☐ No ☐ #

Results

Bed Composition of Riffle (must add up to 100%)

SILT ☐ SAND ☐ GRAVEL ☐ COBBLES ☐ BOULDERS ☐
 (1/4"-2") (2"-10") (>10")

Descriptions of Water Conditions:

Odorless, colorless
and clear.

Special Notes:

(2) Rainbow Darters seen

MACROINVERTEBRATE TALLY

Estimated Count

A= 1 to 9

B= 10 to 99

C= 100 or more

GROUP 1 TAXA	LTR. Code	GROUP 2 TAXA	LTR. Code	GROUP 3 TAXA	LTR. Code
Water Penny Larvae	<u>A</u>	Damselfly Nymphs	<u>A</u>	Blackfly Larvae	
Mayfly Nymphs	<u>A</u>	Dragonfly Nymphs	<u>-</u>	Aquatic Worms	<u>A</u>
Stonefly Nymphs	<u>A</u>	Cranefly Larvae	<u>A</u>	Midge Larvae	
Dobsonfly Larvae	<u>A</u>	Beetle Larvae	<u>-</u>	Pouch Snails	
Caddisfly Larvae	<u>B</u>	Crayfish	<u>A</u>	Leeches	
Riffle Beetle Adult	<u>A</u>	Scuds			
Gill Snails - (open right)	<u>-</u>	Clams			
		Sow Bugs			
NUMBER OF TAXA	<u>6</u>	NUMBER OF TAXA	<u>3</u>	NUMBER OF TAXA	<u>1</u>
(TIMES) INDEX VALUE	<u>18</u>	(TIMES) INDEX VALUE	<u>6</u>	(TIMES) INDEX VALUE	<u>1</u>
3		2		1	

Cumulative
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Value

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Stream Quality Assessment

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Poor (<11)

Please Send this form to:

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 Conservation District
 125 East Erie St.
 Painesville OH 44077

Stream Quality Assessment Form

Lake County Soil and Water Conservation District

River Mile 0.1 Stream Paine Creek Sample #
 Location Indian Point
 County Lake Township/City Leroy Twp Date 10/4/07 Time 10:15
 Monitoring Group
 Or Individual Lamar Middle Mrs. Dietzle No. of Participants 5

Riffle Structure Width of Riffle <u>9 ft</u> Water Depth <u>4.5 in.</u> Water Temp <u> </u> °C or <u> </u> °F	Chemical Analysis Dissolved O ₂ <u> </u> Acidity (pH) <u> </u> Salinity (Cl) <u> </u> Ammonia <u> </u>	Coliform sample taken? Yes <input type="checkbox"/> No <input type="checkbox"/> # <u> </u> Results <u> </u>
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Bed Composition of Riffle (must add up to 100%)
 SILT ☐ SAND ☐ GRAVEL (1/4"-2") ☐ COBBLES (2"-10") ☐ BOULDERS (>10") ☐

Descriptions of Water Conditions: Clear, no sediments No odor Colorless	Special Notes: but found a 2 ft box and 1 small basket
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MACROINVERTEBRATE TALLY

Estimated Count
 A= 1 to 9
 B= 10 to 99
 C= 100 or more

GROUP 1 TAXA	LTR. Code	GROUP 2 TAXA	LTR. Code	GROUP 3 TAXA	LTR. Code
Water Penny Larvae	A	Damselfly Nymphs	A	Blackfly Larvae	
Mayfly Nymphs	B	Dragonfly Nymphs		Aquatic Worms	A
Stonefly Nymphs	A	Crane fly Larvae	A	Midge Larvae	
Dobsonfly Larvae	A	Beetle Larvae		Pouch Snails	
Caddisfly Larvae	B	Crayfish	A	Leeches	
Riffle Beetle Adult		Scuds			
Gill Snails - (open right)		Clams			
		Sow Bugs			
NUMBER OF TAXA	5	NUMBER OF TAXA	3	NUMBER OF TAXA	1
(TIMES) INDEX VALUE	15	(TIMES) INDEX VALUE	6	(TIMES) INDEX VALUE	1
3		2		1	

Cumulative
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Value

22

Stream Quality Assessment

Excellent (> 22)
Fair (11-16)

Good (17-22)
Poor (<11)

Please Send this form to:

Lake County Soil and Water
Conservation District
125 East Erie St.
Painesville OH 44077

Stream Quality Assessment Form

Lake County Soil and Water Conservation District

River Mile 0.0 Stream Paine Creek Sample #
 Location Indian Pointe
 County Lake Township/City Leroy Date 10/4/07 Time 9:30
 Monitoring Group
 Or Individual Lake County Middle School Weimer No. of Participants 6

Riffle Structure

Width of Riffle 15 ft
 Water Depth 3"
 Water Temp °C or °F

Chemical Analysis

Dissolved O₂
 Acidity (pH)
 Salinity (Cl)
 Ammonia

Coliform sample taken?

Yes ☐ No ☐ #

Results

Bed Composition of Riffle (must add up to 100%)

SILT ☐ 0% SAND ☒ 25% GRAVEL ☒ 25% (1/4"-2") COBBLES ☒ 65% (2"-10") BOULDERS ☒ 10% (>10")

Descriptions of Water Conditions:

NO ODOR
Clear
Chlorine

Special Notes:

MACROINVERTEBRATE TALLY

Estimated Count

A= 1 to 9

B= 10 to 99

C= 100 or more

GROUP 1 TAXA	LTR. Code	GROUP 2 TAXA	LTR. Code	GROUP 3 TAXA	LTR. Code
Water Penny Larvae	A	Damselfly Nymphs	A	Blackfly Larvae	
Mayfly Nymphs	B	Dragonfly Nymphs		Aquatic Worms	A
Stonefly Nymphs	A	Crane fly Larvae		Midge Larvae	
Dobsonfly Larvae	A	Beetle Larvae		Pouch Snails	
Caddisfly Larvae	B	Crayfish	A	Leeches	
Riffle Beetle Adult		Scuds			
Gill Snails -- (open right)		Clams			
		Sow Bugs			
NUMBER OF TAXA	5	NUMBER OF TAXA	2	NUMBER OF TAXA	1
(TIMES) INDEX VALUE	15	(TIMES) INDEX VALUE	4	(TIMES) INDEX VALUE	1
3		2		1	

Cumulative
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Value

20

Stream Quality Assessment

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 Painesville OH 44077

Stream Quality Assessment Form

Lake County Soil and Water Conservation District

River Mile 0.1 Stream Paine Creek Sample #
 Location Indian Point
 County Lake Township/City Lorain Date 10/4/07 Time 10:00am
 Monitoring Group
 Or Individual Lake County Group 5 No. of Participants 5

Riffle Structure Width of Riffle <u> </u> Water Depth <u> </u> Water Temp <u> </u> °C or <u> </u> °F	Chemical Analysis Dissolved O ₂ <u> </u> Acidity (pH) <u> </u> Salinity (Cl) <u>0.0mg/L</u> Ammonia <u> </u>	Coliform sample taken? Yes <input type="checkbox"/> No <input type="checkbox"/> # <u> </u> Results <u> </u>
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Bed Composition of Riffle (must add up to 100%)
 SILT ☐ SAND ☐ GRAVEL (1/4"-2") ☐ COBBLES (2"-10") ☐ BOULDERS (>10") ☐

Descriptions of Water Conditions: <u> </u>	Special Notes: <u>rainbow darter</u>
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MACROINVERTEBRATE TALLY

Estimated Count
 A= 1 to 9
 B= 10 to 99
 C= 100 or more

GROUP 1 TAXA	LTR. Code	GROUP 2 TAXA	LTR. Code	GROUP 3 TAXA	LTR. Code
Water Penny Larvae	A	Damselfly Nymphs	—	Blackfly Larvae	A
Mayfly Nymphs	B	Dragonfly Nymphs	—	Aquatic Worms	B
Stonefly Nymphs	B	Cranefly Larvae	A	Midge Larvae	A
Dobsonfly Larvae	B	Beetle Larvae	—	Pouch Snails	A
Caddisfly Larvae	B	Crayfish	A	Leeches	—
Riffle Beetle Adult	A	Scuds	—		
Gill Snails (open right)	—	Clams	—		
		Sow Bugs	—		
NUMBER OF TAXA	6	NUMBER OF TAXA	2	NUMBER OF TAXA	4
(TIMES) INDEX VALUE	18	(TIMES) INDEX VALUE	4	(TIMES) INDEX VALUE	4
3		2		1	

Cumulative
Index
Value

26

Stream Quality Assessment

Excellent (> 22)

Good (17-22)

Fair (11-16)

Poor (<11)

Please Send this form to:

Lake County Soil and Water
 Conservation District
 125 East Erie St.
 Painesville OH 44077

Stream Quality Assessment Form

Lake County Soil and Water Conservation District

River Mile 0.1 Stream Paine Creek Sample #
 Location Indian Point
 County Lake Township/City Laroy Date 10/4/07 Time 9:00
 Monitoring Group
 Or Individual Lanarth middle school 7th No. of Participants 5

Riffle Structure

Width of Riffle
 Water Depth
 Water Temp °C or °F

Chemical Analysis

Dissolved O₂
 Acidity (pH)
 Salinity (Cl) 0.0
 Ammonia

Coliform sample taken?

Yes ☐ No ☐ #

Results

Bed Composition of Riffle (must add up to 100%)

SILT ☐ SAND ☐ GRAVEL ☐ COBBLES ☐ BOULDERS ☐
 (1/4"-2") (2"-10") (>10")

Descriptions of Water Conditions:

Special Notes:

fairtail darter

MACROINVERTEBRATE TALLY

Estimated Count

A= 1 to 9

B= 10 to 99

C= 100 or more

GROUP 1 TAXA	LTR. Code	GROUP 2 TAXA	LTR. Code	GROUP 3 TAXA	LTR. Code
Water Penny Larvae	<u>A</u>	Damselfly Nymphs	<u>A</u>	Blackfly Larvae	<u> </u>
Mayfly Nymphs	<u>B</u>	Dragonfly Nymphs	<u> </u>	Aquatic Worms	<u> </u>
Stonefly Nymphs	<u>A</u>	Cranefly Larvae	<u>A</u>	Midge Larvae	<u> </u>
Dobsonfly Larvae	<u>B</u>	Beetle Larvae	<u>A</u>	Pouch Snails	<u> </u>
Caddisfly Larvae	<u>A</u>	Crayfish	<u> </u>	Leeches	<u> </u>
Riffle Beetle Adult	<u>A</u>	Scuds	<u> </u>		
Gill Snails - (open right)	<u>A</u>	Clams	<u> </u>		
		Sow Bugs	<u> </u>		
NUMBER OF TAXA	<u>7</u>	NUMBER OF TAXA	<u>3</u>	NUMBER OF TAXA	
(TIMES) INDEX VALUE	<u>21</u>	(TIMES) INDEX VALUE	<u>6</u>	(TIMES) INDEX VALUE	
3		2		VALUE 1	

Cumulative
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Value

27

Stream Quality Assessment

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Poor (<11)

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